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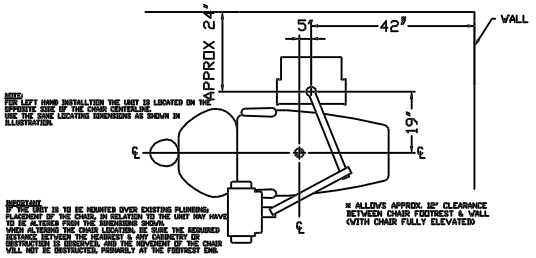
FLOOR PLAN - FM UNIT WITH KNIGHT CHAIRS



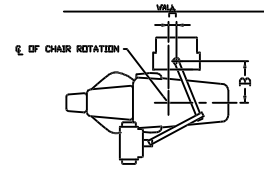
NOTE: FOR LEFT HAND INSTALLATION THE UNIT IS LOCATED ON THE OPPOSITE SIDE OF THE CHAIR CENTERLINE. USE THE SAME LOCATING DIMENSIONS AS SHOWN IN ILLUSTRATION.

IMPORTANT: IF THE UNIT IS TO BE MOUNTED OVER EXISTING PLUMBING, PLACEMENT OF THE CHAIR, IN RELATION TO THE UNIT MAY HAVE TO BE ALTERED FROM THE DIMENSIONS SHOWN. WHEN ALTERING THE CHAIR LOCATION, BE SURE THE REQUIRED DISTANCE BETWEEN THE HEADREST & ANY CABINETRY OR OBSTRUCTION IS OBSERVED, AND THE MOVEMENT OF THE CHAIR WILL NOT BE OBSTRUCTED, PRIMARILY AT THE FOOTREST END.

* ALLOWS APPROX. 12" CLEARANCE BETWEEN CHAIR FOOTREST & WALL (WITH CHAIR FULLY ELEVATED)

NOTE: BE SURE CONNECTION BOX LOCATION DOES NOT INTERFERE WITH CHAIR MOVEMENTS.

CHAIR RELOCATION CHART



CHAIR RELOCATION REQUIRED WHEN REPLACING EXISTING UNIT WITH KNIGHT FM UNIT

INSTALLING A FM UNIT OVER EXISTING PLUMBING MAY REQUIRE MOVING THE CHAIR SLIGHTLY TO LOCATE THE CHAIR IN THE RECOMMENDED POSITION TO THE UNIT.

1. THE DIMENSIONS (A & B) IN COLUMN 1 REPRESENTS THE EXISTING CHAIR TO UNIT RELATIONSHIP RECOMMENDED BY THE MANUFACTURER OF THE UNIT BEING REPLACED.
2. THE DIMENSIONS A (5") & B (19") IN COLUMN 2 IS THE CHAIR TO UNIT RELATIONSHIP FOR THE FLOOR MOUNT UNIT
3. THE DIMENSIONS UNDER "CHAIR RELOCATION REQUIRED FOR ESCORT FM" COLUMN INDICATES THE NUMBER OF INCHES THE CHAIR MUST BE MOVED TO BE POSITIONED PROPERLY.

UNIT BEING REPLACED	1		2		3	
	MANUFACTURER'S RECOMMENDED LOCATION FOR EXISTING UNIT		KNIGHT RECOMMENDED LOCATION FOR FLOOR MOUNT		CHAIR RELOCATION REQUIRED FOR ESCORT FM	
	A (INCHES)	B (INCHES)	A (INCHES)	B (INCHES)	CHANGE IN DIMENSION A (INCHES)	CHANGE IN DIMENSION B (INCHES)
MIDWEST 210	10.0	18.0	5.0	19.0	5.0	1.0
RITTER 180 FM	11.0	23.0			6.0	4.0
RITTER COMMANDER	2.25	28.70			2.75	9.70
RITTER G,H,J, COMPACT MODULAIRE	4.5	19.0			0.5	0
WEBBER P-64	4.5	19.0			0.5	0

INSTALLATION PLAN
FLOOR MOUNTED UNIT BASE
UNIT MODEL "S" & "SW"

Knight by Hillenbrand

TP1120 Rev. B (10/99)

WARNING

THE DISTANCE BETWEEN THE FLOOR AND THE STATIONARY ARM ON THE FM UNIT COULD PERMIT PATIENT INJURY DUE TO INTERFERENCE WITH THE STATIONARY ARM.

THIS CAN ONLY OCCUR WHEN SOME MAKES AND MODELS OF CHAIRS ARE RAISED TO THEIR MAXIMUM HEIGHT.

TO GUARD AGAINST SUCH AN OCCURANCE KNIGHT MFG. RECOMMENDS RESETTING THE CHAIR'S UPPER LIMIT SWITCH TO PROVIDE A MIN OF 6" CLEARANCE.

FOLLOW RECOMMENDED CHAIR/UNIT RELATIONSHIP AS STATED ON INSTALLATION PLAN TP1120 TO AVOID INTERFERENCE BETWEEN CHAIR ARM REST AND CHIPBOX. CHECK INSTALLATION TO BE SURE PATIENT INJURY OR EQUIPMENT DAMAGE CAN BE AVOIDED.

IMPORTANT: AFTER INSTALLING THE FLOOR MOUNT UNIT RAISE THE CHAIR TO ITS MAXIMUM HEIGHT. THE DISTANCE BETWEEN THE STATIONARY ARM AND THE HEIGHT OF THE CHAIR SHOULD BE SET TO ALLOW COMFORTABLE POSITIONING OF THE PATIENT. THIS DISTANCE SHOULD ESPECIALLY BE CHECKED ON NON-KNIGHT CHAIRS.
IF THE CHAIR RISES TOO CLOSE TO THE STATIONARY ARM: RESET THE CHAIR HEIGHT UPPER LIMIT SWITCH TO REDUCE THE MAXIMUM HEIGHT.

NEW PLUMBING

THE INDICATED POSITIONS FOR INCOMING SERVICES SHOWN ON THIS TEMPLATE ARE SUGGESTED FOR IDEAL LOCATIONS, HOWEVER, FLOOR CONSTRUCTION MAY REQUIRE SLIGHT RELOCATION. THE SERVICES MAY ENTER ANYWHERE WITHIN THE OPEN AREA.

EXISTING PLUMBING

THE FLOOR MOUNT CAN BE INSTALLED OVER MOST EXISTING PLUMBING WITHOUT ALTERATION TO INCOMING SERVICES. IF PLUMBING RELOCATION IS NECESSARY IT CAN ENTER ANYWHERE WITHIN THE OPEN AREA.

PLUMBING SPECIFICATIONS:

AIR
- 1/2" PIPE TERMINATING WITH 1/2" NPT STUB UP 3/4" TO 1" FROM FINISHED SURFACE AS NEAR CONNECTION BOX AS POSSIBLE.
- FLUSH ALL DEBRIS FROM LINE BEFORE INSTALLING VALVE.
- AIR PRESSURE TO BE 60 PSI MIN. TO 100 PSI MAX.
- FOR MAXIMUM LIFE AND TROUBLE FREE OPERATION OF UNIT, AIR SUPPLY MUST BE CLEAN AND DRY. IT IS RECOMMENDED THAT A MOISTURE SEPARATOR AND FILTER BE INSTALLED AS NEAR CONNECTION BOX AS POSSIBLE AND BE ACCESSIBLE FOR PERIODIC CLEANING.

ELECTRIC SUPPLY
- 3 CONDUCTOR CABLE - #14 WIRE (120 VAC).
- FUSE CIRCUIT FOR 15 AMPS (120 VAC) OR 7.5 AMPS (240 VAC).
- WIRE TO EXTEND 10" AT ROUGH INSTALLATION.
- INSTALL IN COMPLIANCE WITH ALL PREVAILING CODES.

ELECTRICAL SUPPLY
- 3 CONDUCTOR #14 AWG CABLE ON FUSED CIRCUIT TO TERMINATE INSIDE A 2" X 4" JIFFY BOX (NOT SUPPLIED) IN LOCATION SHOWN.
- CONNECT ELECTRICAL POWER SUPPLY CABLE TO POWER CABLE IN ACCORDANCE WITH PREVAILING ELECTRICAL CODES. CONNECTION MAY BE MADE INSIDE JIFFY BOX WITH SUITABLE CONNECTORS OR BY A PLUG AND RECEPTICAL (NOT SUPPLIED).

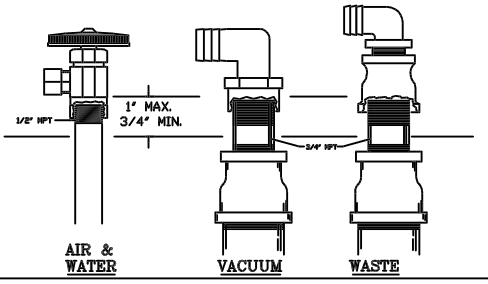
VACUUM
- 1-1/4" I.D. COPPER OR PLASTIC PIPE DECREASING TO 3/4" PIPE AS NEAR CONNECTION BOX AS POSSIBLE.
- TERMINATE WITH 3/4" MALE PIPE THREAD 3/4" TO 1" ABOVE FLOOR.
- INSTALL LINE ACCORDING TO VACUUM SYSTEM MANUFACTURER'S SPECIFICATIONS.

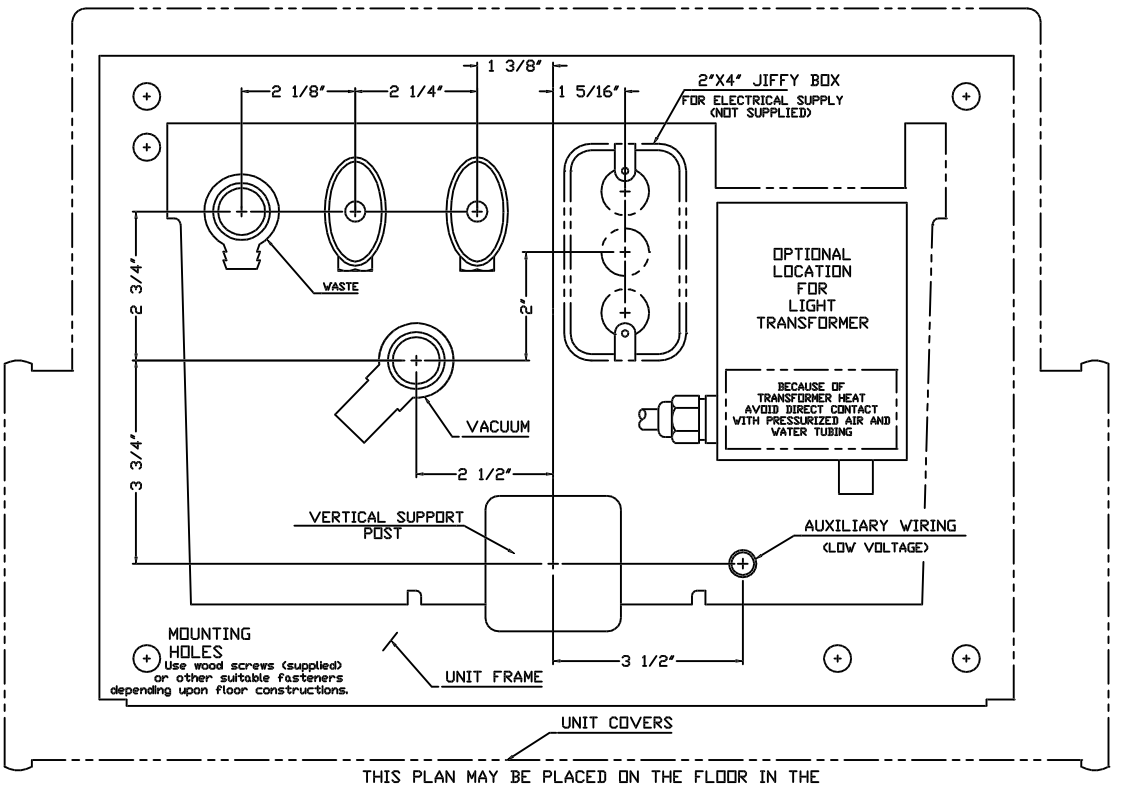
WATER
- 1/2" PIPE TERMINATING WITH 1/2" NPT STUB UP 3/4" TO 1" FROM FINISHED SURFACE AS NEAR CONNECTION BOX AS POSSIBLE.
- FLUSH ALL DEBRIS FROM LINE BEFORE INSTALLING VALVE.
- WATER PRESSURE NOT TO EXCEED 50 PSI.

AUXILIARY WIRING
- LOW VOLTAGE
- *FOR CLASS 2 CIRCUITS ONLY*
- INSTALL IN COMPLIANCE WITH ALL PREVAILING CODES.

WASTE

REQUIRED FOR: GRAVITY DRAIN CUSPIDOR WATER BOWL ASPIRATOR
- NOT LESS THAN 1-1/2" I.D. PIPE FROM BOWL PIPE TO TRAP DECREASING TO 3/4" PIPE FROM TRAP TO CONNECTION BOX.
- TERMINATE WITH 3/4" MALE PIPE THREAD 3/4" TO 1" ABOVE FLOOR.
- INSTALL TRAP IN LINE AND VENT TO CONFORM WITH LOCAL CODES.





THIS PLAN MAY BE PLACED ON THE FLOOR IN THE DESIRED LOCATION & THEN USED AS A TEMPLATE FOR PUNCHING OF HOLE CENTERS. DIMENSIONS FOR PIPE LOCATIONS CAN BE ANY PLACE WITHIN THE BOX AS LONG AS HOOK-UP CONNECTIONS ARE ACCESSIBLE.

TP1120 Rev. B (10/99)

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